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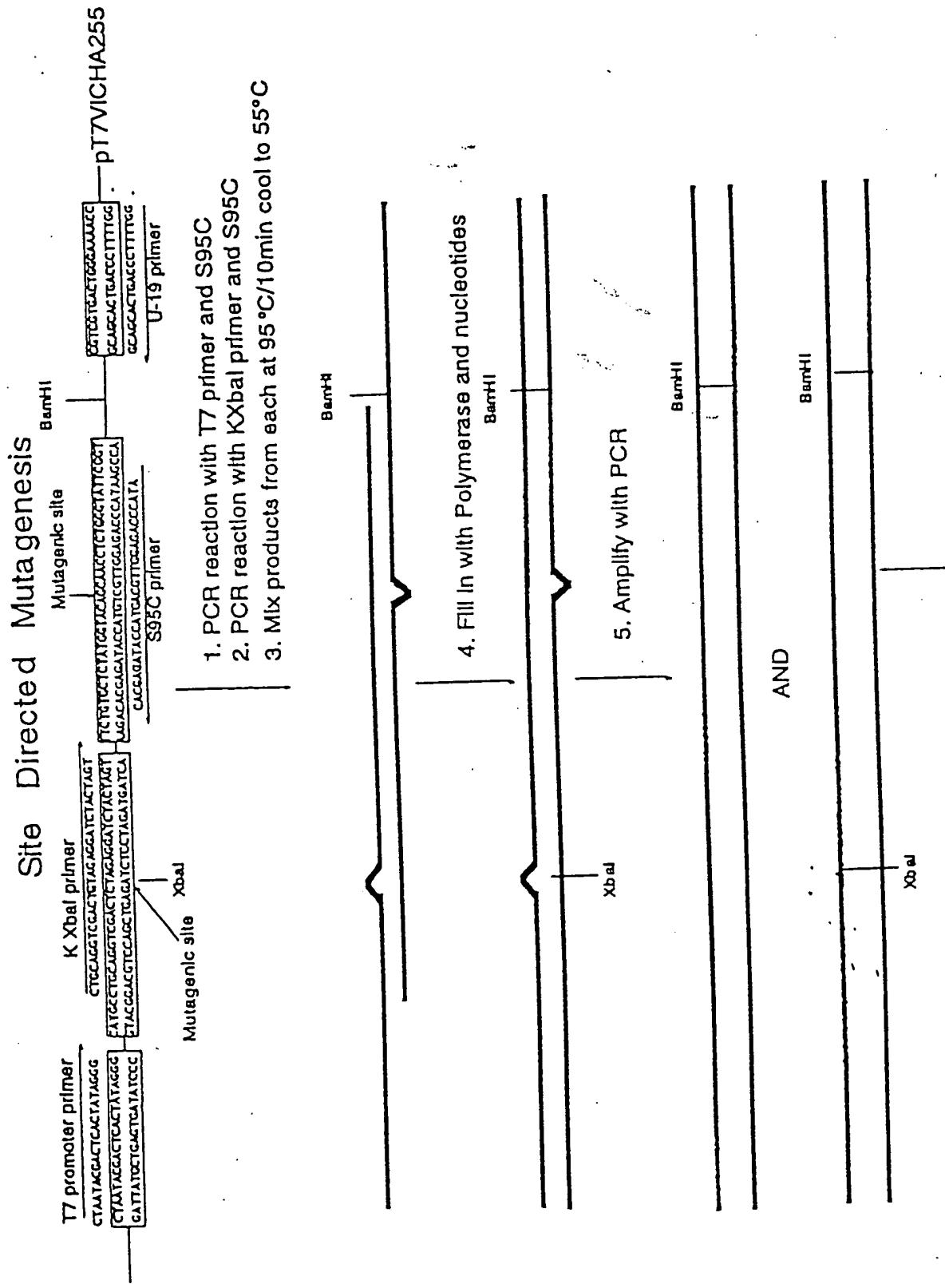


Fig. 1

GAG TCT CGG CGA GAC TCA ATG  
 GAA GTG ACG CTG GTC GAG TCT CGG CGA GAC TCA GTG AAC CCT GCA CGG TCC CTG AAA CTC  
 CTT CAC TGC GAC GAC CTC AGA CCC CCT CTG AGT CAC TTC GCA CCT CGG AGC CAC TTT CAC  
 CAA Vn Thr Lys Val Glu Ser Gly Asp Ser Val Lys Pro Ser Gly Ser Lys Lys Lys  
 FR1

TCC TGT CGA CGC TCT CGA TTC ACT TTA AGT CGT GAA ACC ATG TCT TCG CTT CGG CAG ACT  
 CCC ACA CGT CGG AGA CCT AAC TCA ATT TCA CGA CTT TCG TAC AGA ACC CGA CGG CTC TGA  
 GAA Vn Ala Ser Ser Gly Phe Thr Lys Ser Ser Gly Ser Gly Ser Val Arg Gln Tyr  
 FR2

COR1

CCG GAG AAC CGG CTG CAC TCG GTC CGA ACC ACT CTT AGT CGT CCT CGT TTC ACC TTC TAT  
 CCC CTC TTC TCC GAC CTC ACC CAG CGT TGG TGA CGA TCA CGA CGA CGA AAC TGG AAC ATA  
 Phe Gln Lys Arg Lys Glu Thr Vn Ala Thr Lys Lys Ser Gly Glu Glu Phe Thr Phe Tyr  
 COR2

TCA CGC ACT CTG AAC CGT CGT TTC ACC ATC TCC AGA GAC ATT CGG CGA AAC AAC CTC TAT  
 ACT CGG TCA CAC TTC CGA AAC TGG TAG AGG TCT CTG TTA CGG GTC TTC TTC GAG ATA  
 Ser Ala Ser Val Lys Glu Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Asn Asn Lys Tyr  
 FR3

CTA CGA CTG ATT ACT CTG AGG TCT GAC GAC AGG CGG TTS TAT TTC TGT CGA AGT CAT CGG  
 CAT GTT GAC TTA TCA GAC TCC AGA CTC CTG TCC CGG AAC ATA AAC AGA CGT TCA GTA CGC  
 Lys Gln Lys Asn Ser Lys Arg Ser Gln Asp Thr Ala Lys Tyr Phe Gln Ala Ser His Arg  
 COR3

TTT CGT CGC TCG CGC CGC ACT CTG GTC ACT GTC TCT CGA CGC AAA AGC AGA CCC CGA  
 AAA CGA GTG ACC CGG CGG CGA CGC CGA CGA CGA CGA CGT CGG TTT TCC TGT CGG CGT  
 Pro Val His Ser Gly His Glu Thr Lys Val Thr Val Ser Ala Ala Lys Thr Thr Pro Pro  
 CH1

FR4

Fig. 2

CTCAACCC

ACT GTC CTC ACT CTC GTC

CCT GTT GTC ACT CGC CAA TET GCA CTC ACC ACA TCA CCT CCT GAA ACA GTC ACA CTC ACT  
 CGA CAA CAC TCA CTC CCT ACA CCT CGC TCA CCT TGT ACT CGA CCA CCT TGT CAG TGT CAG TCA  
 Ala Val Val Thr Glu Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu Thr Val Thr Leu Thr

FR1

TGT CCC TCA ACT ATT CGG CCT GTT ACA ACT AGT AAC TAT CCT AAC TCG CTC CAA CAA AAA  
 GCA CGG ACT TCA TAA CCC CGA CAA TGT TCA TCA TTG ATA CGG TTG ACC CAG CCT TTT  
 Cys Arg Ser Ser Ile Gly Ala Val Thr Thr Ser Asn Tyr Ala Asn | Trp Val Glu Glu Lys

FR2

COR1

CCA CAT CAT TTA TTC ACT CCT CTA ATA CCT CCT ACC AAC TAT CCT CGG CCT CCT GTT CCT  
 CCT CTA ATA ATT AAC TCA CCA CAT TAT CCA CCA TGG TTA TTG GGC CCA GGC CCA CAA CCT  
 Pro Asp His Leu Phe Thr Gly Leu Asn Asn Arg Ala Pro | Gly Val Pro

FR3

COR2

GCC AGA TTC TCA CGG TCC CTC ATT CGA CGC AAC CCT CCT CGC CTC ACC ATC ACA CGG CCT CGC  
 CGG TCT AAC ACT CGG CGC TAA CCT CTC CGA CGG GAG TGG TAG TGT CCT CGT GTC  
 Ala Arg Phe Ser Gly Ser Leu Leu Gly Asp Lys Ala Ala Leu Thr Ile Tyr Gly Ala Glu

COR3

ACT CAA CAT CGC CCA ACA TAT TTC TGT CCT CTC TCA TCG TAC III AAC CTC TGG GTC TTC CGT  
 TCA CCT CTA CTC CCT TCT ATA AAC ACA CAA CAT ACC ATC AAC TTG GAG ACC CGC AAC CCT  
 Thr Glu Asp Glu Ala Arg Tyr Phe Cys Ala | Leu Trp Tyr Cys Asn Leu Trp Val Phe Gly

FR4

COR4

CGA CGA ACC AAA CTG ACT GTC CTC ACC CGG AAC CCT TCG CCT TCA GTC ACC CTC TTT  
 CCT CCT TCG TTT GAG TCA CGG CAT TCG CTC CGG TTC ACA AAC ACC CCT ACT CGG TGG GAG AAA  
 Gly Gly Thr Lys Leu Thr Val Leu Ser | Glu Pro Lys Ser Ser Phe Ser Val Thr Leu Phe

III FAC TCA CTC CCT III

CTAACCC  
BAMH

CGG CGC TCC TCT GAA GAA CTC ACT GCA ATA GCA TTC CGG CGG  
 CGG CGA AGG AGA CCT CTC GAT TGT AAC CCT TAG CCT AAC CGC CC  
 Pro Pro Ser Ser CGA CGA Leu Ser Leu Gly Ds Gly Phe Pro Gly

Fig. 3

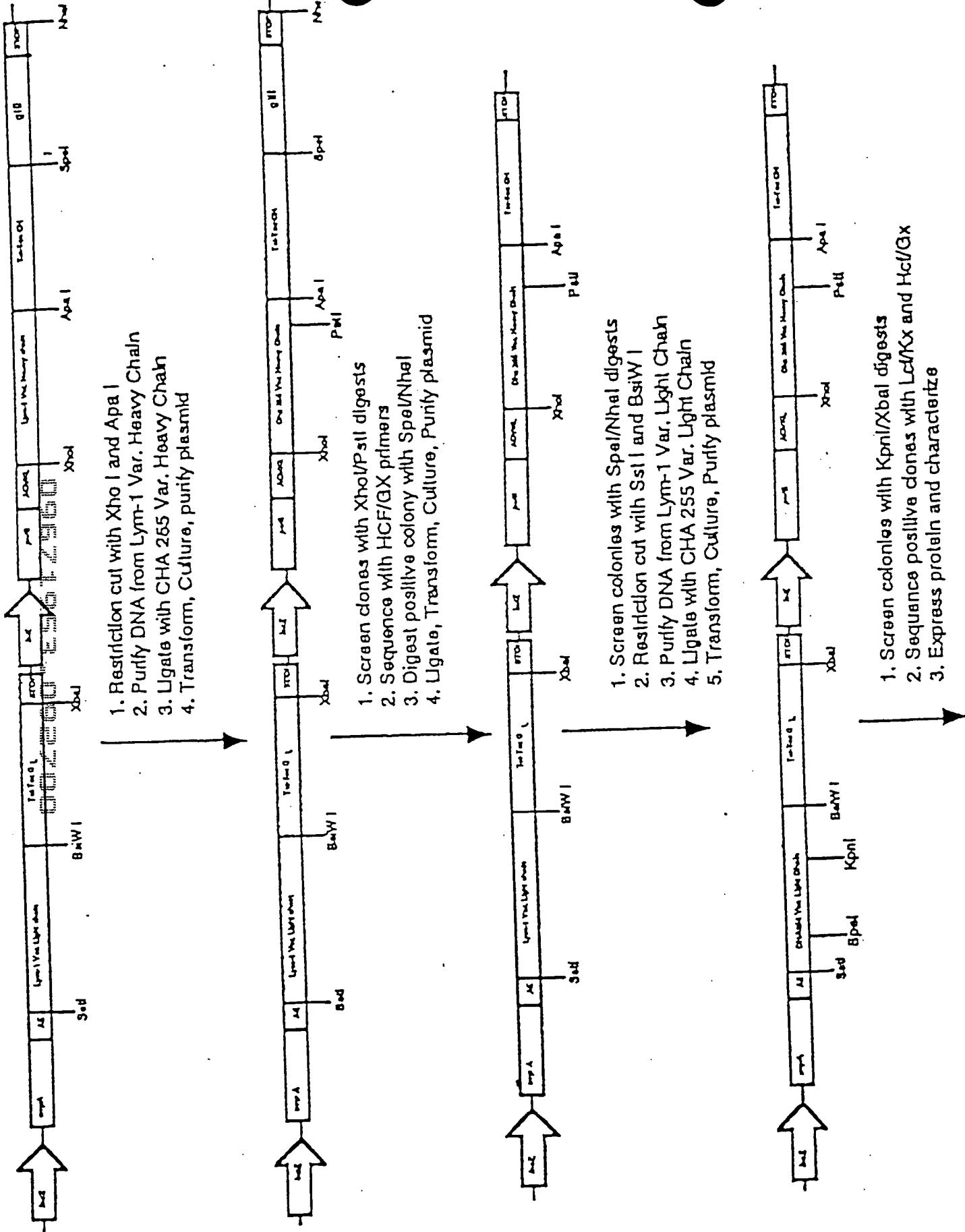
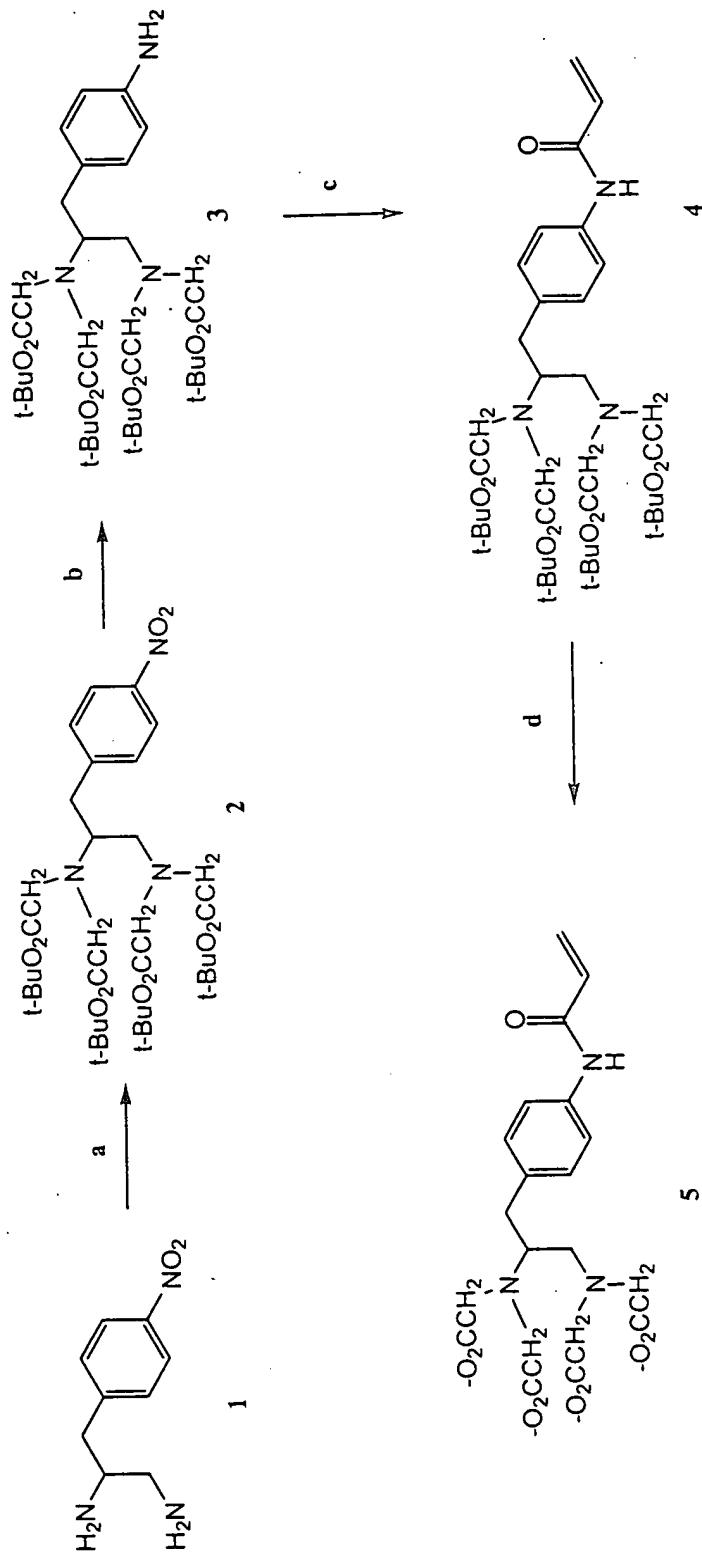


Fig. 4

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a.  $\text{BrCH}_2\text{CO}_2\text{t-Bu}$ , DIPEA, KI, DMF ; b.  $\text{H}_2$ , Pd/C, MeOH ; c. acryloyl chloride, DIPEA,  $\text{CH}_2\text{Cl}_2$  ; d. TFA.

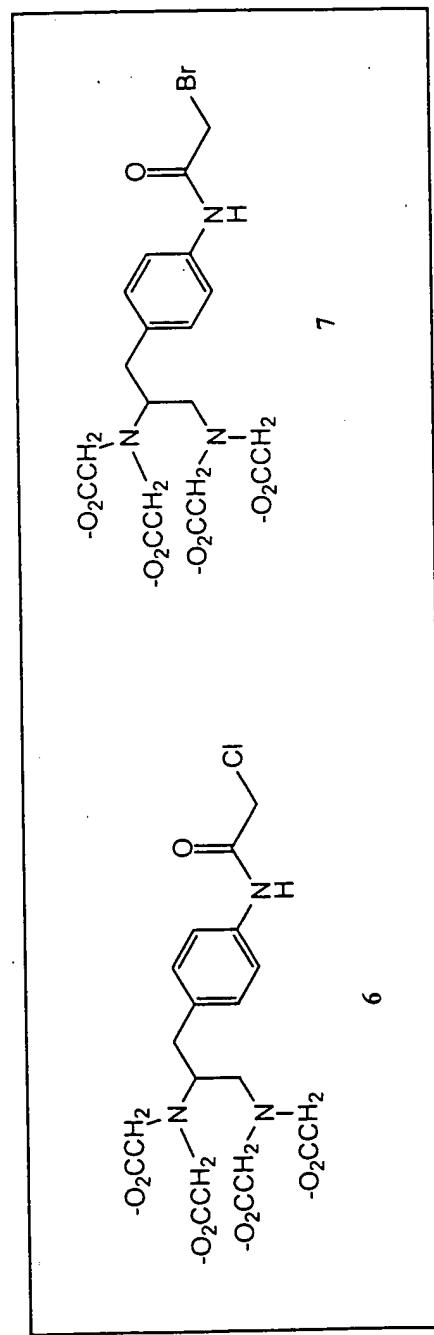


Fig. 5

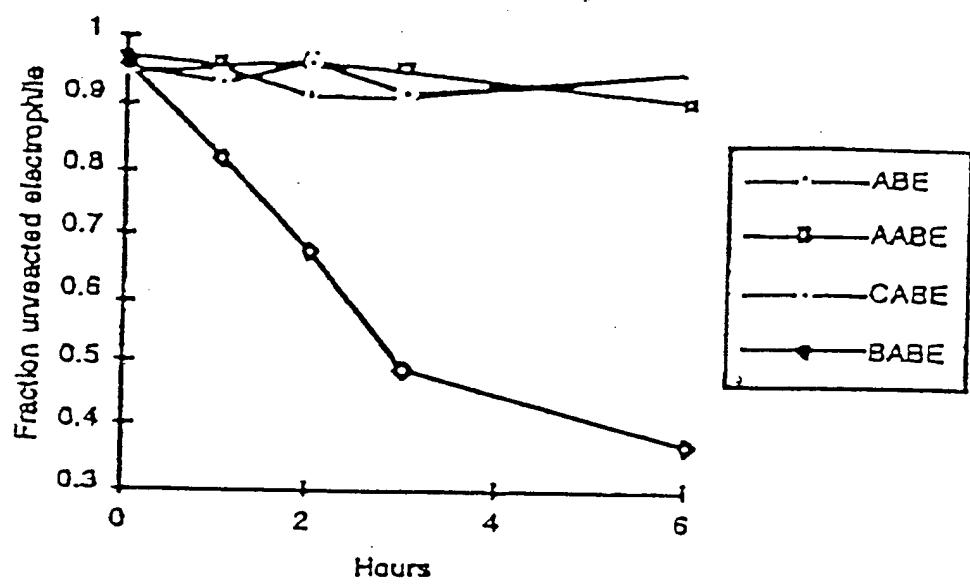


Fig. 6

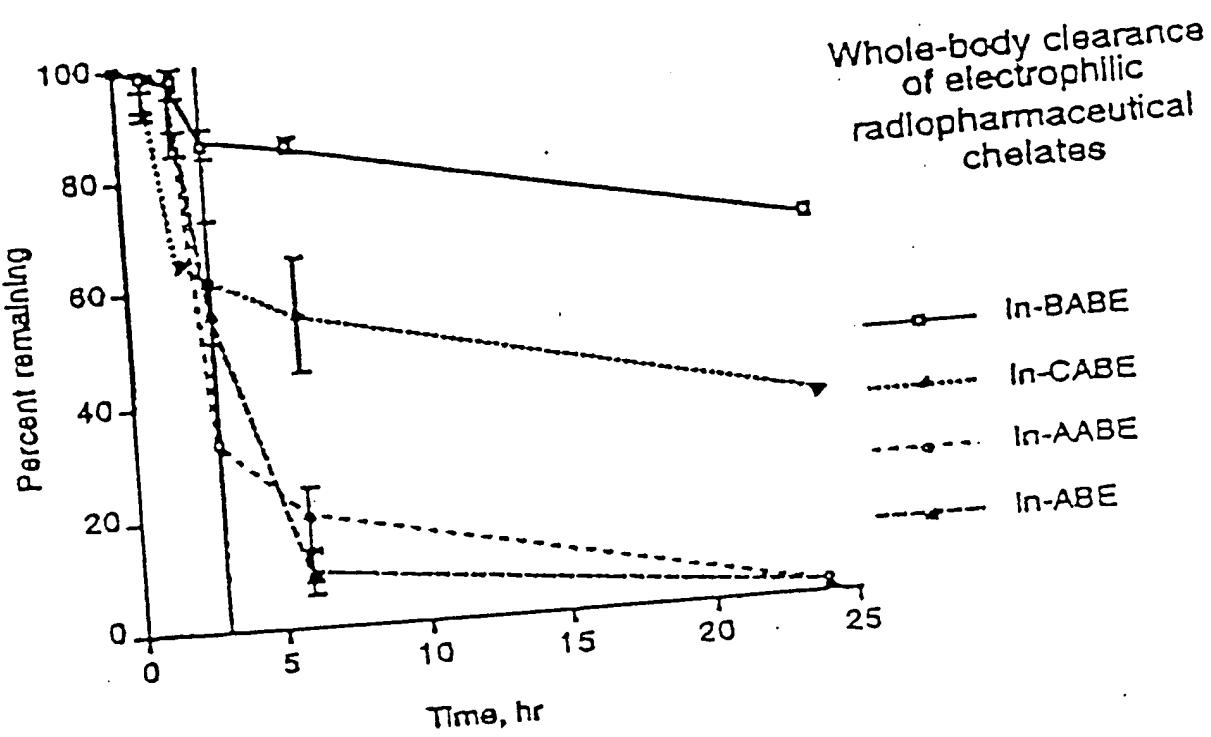


Fig. 7

AGATCTGAAGTACGCTGGTGGAGTCTAGGGGAGACTCAGTGAAGCCTGGAGGGTT  
CCTGAAACTCTCCTGTGCAGCCTCTGGATTCACTTAAGTGGTGAAACCATGTCTTG  
GGTCGCCAGACTCCGGAGAAGAGGGCTGGAGTGGGTACAACCACTTTAGTGGTG  
GTGGTTTACCTTCTATTAGCCAGTGTGAAGGGTCGTTCACCATCTCCAGAGACA  
ATGCCAGAACAAACCTCTATCTACAACCTGAATAGTCTGAGGTCTGAGGACACGGCT  
TGTATTTCTGTGCAAGTCATCGGTTGTTCACTGGGCCACGGGACTCTGGTCACTGT  
CTCTGCAGCCAAAACGACGGGCCATCGGTCTTCCCCCTGGCACCCCTCCAAGAG  
CACCTCTGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACC  
GGTACGGTGTGGAACTCAGGCCTGACCAGCGCGTGCACACCTTCCCGG  
CTGTCTACAGTCCTCAAGACTCTACTCCTCAGCAGCGTGGTACCGTGCCCTCA  
ACAGCTTGGCACCCAGACCTACATCTGCAACGTGAATACAAGCCCAGCAACACC  
AAGGTGGACAAGAAAGCAGAGCCAAATCTTGTGACAAATCTAGAGGGCCCTCGA  
AGGTAGCCTATCCCTAACCCCTCTCCTCGGTCTCGATTCTACGCGTACCGGTACATCAT  
CACCATCACCAATTGA

Fig. 8

AGATCTGCTGTTGTGACTCAGGAATCTGCACTCACCATCACCTGGTGAACAGTC  
ACACTCACTGTCGCTCAAGTATTGGGGCTGTTACAACTAGTAACATGCCAACTGG  
GTCCAAGAAAAACCAGATCATTATTCACTGGTCTAATAGGTGGTACCAATAACCGG  
GCTCCGGGTGTTCCCTGCCAGATTCTCAGGCTCCCTGATTGGAGACAAGGCTGCCCTC  
ACCATCACAGGGGCACAGACTGAAGATGAGGCAAGATATTCTGTGCTCTATGGTA  
CTCCTGCCTCTGGGRTTCCGGTGGAGGAACCAAACACTGACTGTCCTAACGCCGWACKGT  
GGCTGCACCATCTGCTTCATCTTCCGCCATCTGATGAGCAGTTGAAATCTGGAAC  
TGCCTCTGTTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTG  
GAAGGTGGATAACGCCCTCCAATGGGTAACTCCCAGGAGAGTGTACAGAGCAGG  
ACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCCCTGACGCTGAGCAAAGCAGAC  
TACGAGAAACACAAAGTCTACGCCCTGCGAAGTCACCCATCAGGGCCTGAGYTYGCC  
CGTCACAAAGAGCTCAACAGGGAGAGTGTAA

Fig. 9

AGATCTGCTTGTGACTCAGGAATCTGCACTCACCATCACCTGGTGAAACAGTC  
ACACTCACTGTCGCTCAAGTATTGGGGCTGTTACAACTAGTAACATGCCAAGTGG  
GTCCAAGAAAAACCAGATCATTATTCACTGGTCTAATAGGTGGTACCAATAACCGG  
GCTCCGGGTGTTCCCTGCCAGATTCTCAGGCTCCCTGATTGGAGACAAGGCTGCCCTC  
>ACCATCACAGGGGCACAGACTGAAGATGAGGCAAGATATTCTGTGCTATGGTA  
CTCCAACCTCTGGGTRTCGGTGGAGGAACCAAACGTACTGTCCTAACGCCGWACKG  
TGGCTGCACCATCTGTCTTCATCTTCCCACATCTGATGAGCAGTTGAAATCTGGAA  
CTGCCTCTGTTGTGCCTGCTGAATAACTCTATCCCAGAGAGGCCAAAGTACAGT  
GGAAGGTGGATAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTACAGAGCAG  
GACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCCCTGACGCTGAGCAAAGCAGA  
CTACGAGAAACACAAAGTCTACGCCCTGCGAAGTCACCCATCAGGGCCTGAGTYGC  
CCGTACAAAGAGCTTCAACAGGGAGAGTGTAA

Fig. 10

AGATCTGCTGTTGACTCAGGAATCTGCACTCACCATCACCTGGTGAACAGTC  
ACACTCACTTGTGCGCTCAAGTATTGGGGCTGTTACAACTAGTAACATGCCAACTGG  
GTCCAAGAAAAACCAGATCATTATTCACTGGTCTAATAAGGTGGTACCAATAACCGG  
GCTCCGGGTGTTCTGCCAGATTCTCAGGCTCCCTGATTGGAGACAAGGCTGCCCTC  
ACCATCACAGGGGCACAGACTGAAGATGAGGCAAGATATTCTGTGCTATGGTA  
CTGCAACCTCTGGGTRTCGGTGGAGGAACCAAACGTGACTGTCTAACGCCGWACKG  
TGGCTGCACCCTCTGTCTTCATCTCCCCGCCATCTGATGAGCAGTTGAAATCTGGAA  
CTGCCTCTGTTGTGCCTGCTGAATAACCTCTATCCCAGAGAGGCCAAAGTACAGT  
GGAAGGTGGATAACGCCCTCCAATCGGGTAACCTCCCAGGAGAGTGTACAGAGCAG  
GACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCCCTGACGCTGAGCAAAGCAGA  
CTACGAGAAACACAAAGTCTACGCCCTGCGAAGTCACCCATCAGGGCCTGAGTYGC  
CCGTCACAAAGAGCTTCAACAGGGGAGAGTGTAA

09671953-096700

Fig. 11

RSAAVTQESALTSPGETVLTCSRSSIGAVTTSNYANWVQEKPDLHLFTGLIGGTNNRAPG  
VPARFSGSLIGDKAALTITGAQTEDEARYFCALWYSCLWVFGGGTKLTVLSRTVAAPSV  
FIFPPSDEQLKSGTASVVCLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYS  
LSSTTLSKADYEHKVYACEVTHQGLSXPVTKSFNRGEC

00X2601-259T2360

Fig. 12

RSAVVTQESALTTSPGETVLTCSRSSIGAVTTSNYANWVQEKPDLHLFTGLIGGTNNRAPG  
VPARFSGSLIGDKAALTITGAQTEDEARYFCALWYSNLWVFGGGTKLTVLSRTVAAPSV  
FIFPPSDEQLKSGTASVVCLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYS  
LSSTTLSKADYEHKVYACEVTHQGLSXPVTKSFNRGEC

00X260 "E55T4550

Fig. 13

RSAVVTQESALTSPGETVLTCSRSSIGAVTTSNYANWVQEKPDLHLFTGLIGGTNNRAGP  
VPARFSGSLIGDKAALTITGAQTEDEARYFCALWYCNLWVFGGGTKLTVLSRTVAAPSV  
FIFPPSDEQLKSGTASVVCLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYS  
LSSTTLSKADYEHKVYACEVTHQGLSXPVTKSFNRGEC

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00022600 "00022600

Fig. 14

RSEVTLVESRGDSVKPGFLKLSACAASGFTLSGETMSWVRQTPEKRLEWVTTLSGGGF  
TFYSASVKGRTISRDN  
AQNNLYLQLNSLRSEDTALYFCASHRFVHWGHGTLVTVSAAKTTGPSVFPLAPSSKSTS  
GGTAALGCLVKDYFPEP  
VTWSWNSGALTSGVHTFPAVLQSSRLYFLSSVVTVPFNLSGTQTYICNVNHKPSNTKVD  
KKAEPKSCDKSRGPFEG  
KPIPPLLGLDSTRTGHHHHHH

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Fig. 15

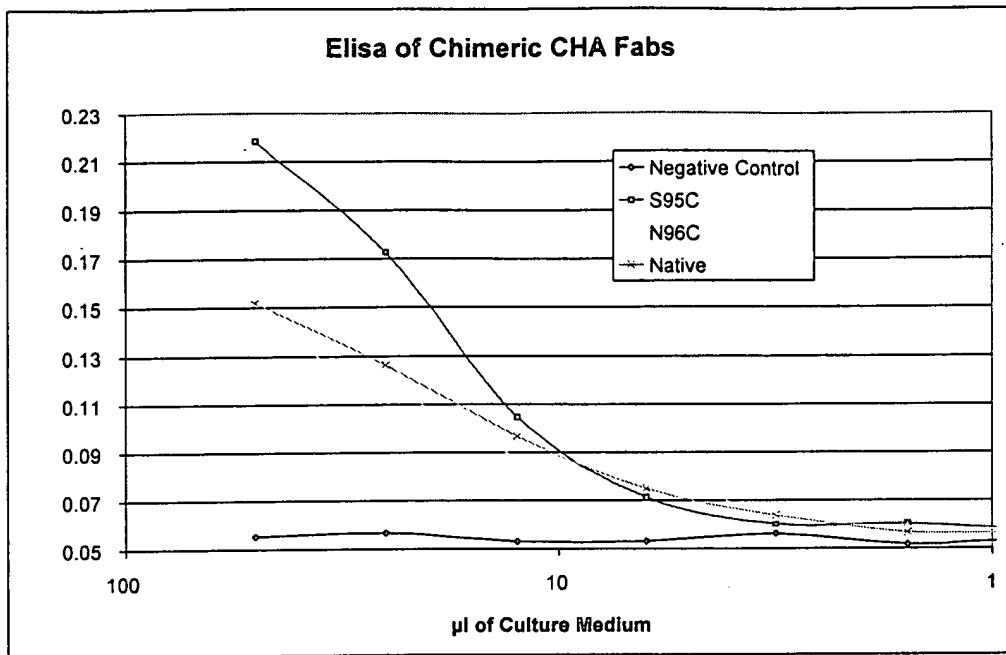


Fig. 16

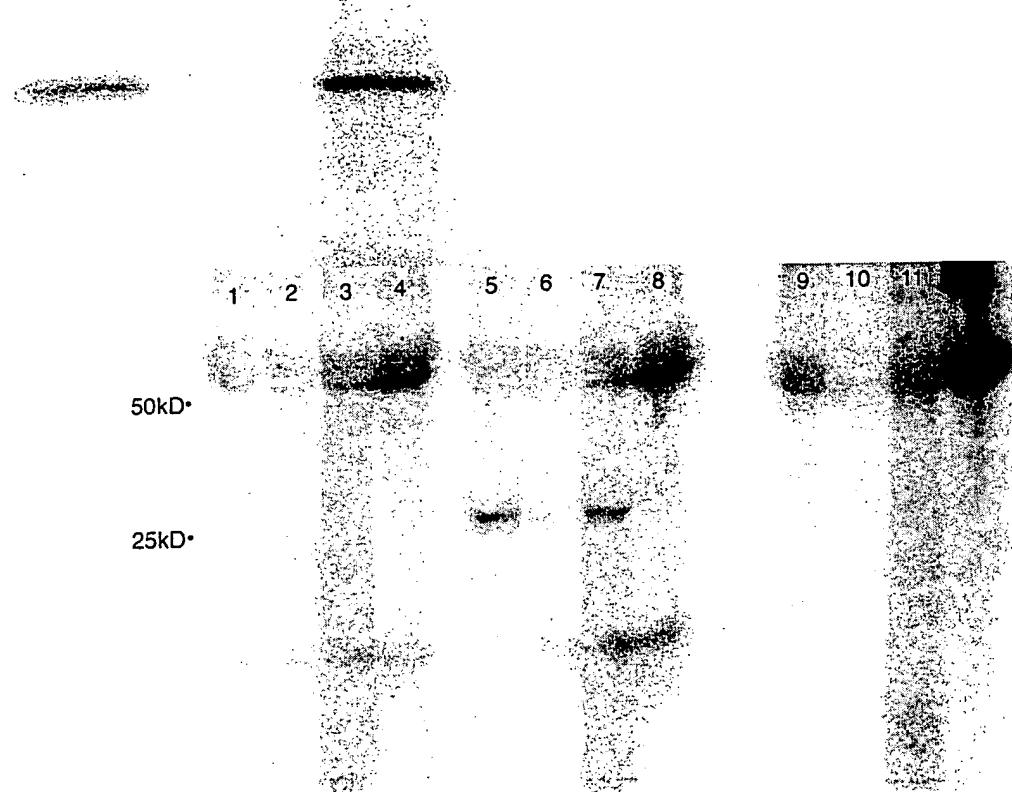


Fig. 17

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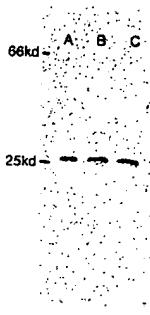


Fig. 18